

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/CA 00009

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H02M1/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, COMPENDEX, IBM-TDB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 357 418 A (CLAVEL ROBERT) 18 October 1994 (1994-10-18) cited in the application abstract figures 1,6 claim 1 column 4-9	1-4
A	EP 0 580 919 A (SGS THOMSON MICROELECTRONICS) 2 February 1994 (1994-02-02) abstract claim 1 column 1 column 2, line 1 - line 11	1-4

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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*G\* document member of the same patent family

Date of the actual completion of the international search:

24 April 2003

Date of mailing of the international search report

07/05/2003

Name and mailing address of the ISA

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International Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 631 371 A (AT & T CORP) 28 December 1994 (1994-12-28) abstract column 1-3	1-4
A	US 6 191 676 B1 (GABOR GEORGE) 20 February 2001 (2001-02-20) figure 12 column 1, line 15 - line 25 column 2, line 60 - line 67 column 3, line 1 - line 41	1-4
A	DALLAGO E ET AL: "POWER FACTOR CORRECTOR WITH A MULTIPLIER CONTROL STAGE BASED ON THE DELTA-SIGMA TECHNIQUE" EPE '97. 7TH. EUROPEAN CONFERENCE ON POWER ELECTRONICS AND APPLICATIONS. TRONDHEIM, SEPT. 8 - 10, 1997, EPE. EUROPEAN CONFERENCE ON POWER ELECTRONICS AND APPLICATIONS, BRUSSELS, EPE ASSOCIATION, B, vol. 2 CONF. 7, 8 September 1997 (1997-09-08), pages 2918-2922, XP000792395 ISBN: 90-75815-02-6 figure 1 page 2.918 -page 2.919 page 2.020, left-hand column	1-4

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA 03/00009

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☒ Claims Nos.: 5  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
The formulation of claim 5 is not allowable (Article 6 PCT, Rule 6.2(a) PCT, PCT Guidelines II-4.17).
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5357418	A	18-10-1994	CA 2054013 A1	03-11-1992
EP 0580919	A	02-02-1994	EP 0580919 A1	02-02-1994
			DE 69206613 D1	18-01-1996
			DE 69206613 T2	02-05-1996
			JP 6233523 A	19-08-1994
			US 5555168 A	10-09-1996
EP 0631371	A	28-12-1994	US 5450029 A	12-09-1995
			CN 1109607 A	04-10-1995
			EP 0631371 A2	28-12-1994
			JP 7174796 A	14-07-1995
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			US 5638265 A	10-06-1997